

## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

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COUNTRY	East Germany	REPORT	
SUBJECT	The Miersdorf Institute of the East German Academy of Sciences: Plans for 1954	DATE DISTR.	1 March 1954
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THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.  
THE APPRAISAL OF CONTENT IS TENTATIVE.  
(FOR KEY SEE REVERSE)

1. The Miersdorf Institute of the East German Academy of Sciences consists of:

<u>Serial</u>	<u>Office</u>	<u>Establishment</u> <u>1953</u>	<u>Establishment</u> <u>for 1954</u>
(a)	The Director's Staff	2	3
(b)	Administrative Staff	15	16
(c)	Technical Business Office	11	13
(d)	Laboratory for electronic equipment	2	3
(e)	Four main departments	15	24

2. The four main departments are as follows:

<u>Dept. No.</u>	<u>Title</u>	<u>Establishment</u> <u>1953</u>	<u>Establishment</u> <u>for 1954</u>
I	Corpuscular Physics	5	10
II	Cosmic Radiation	6	7
IV	Accelerators	4	5
V	Radiochemistry	-	2

3. The following scientific appointments have been made for 1954:

Director: Dr. Michael v.d. Schulenburg  
 Dept. I: Head: Dr. Michael v.d. Schulenburg  
 Dept. II: Head, with status of Scientific Assistant  
 (Wiss. Assistant): Karl Lanius  
 Dept. IV: Head, with status of Scientific Collaborator  
 (Wiss. Mitarbeiter): Dr. Otto Baier 1

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4. No appointments have yet been announced for Dept. V, but the establishment provides for a Scientific Collaborator at the head of it.
5. The Institute proposed to spend a total of 730,100 DM East, comprising 507,400 on personnel costs, and 222,700 on the cost of materials, in carrying out its research tasks for 1954.
6. The various tasks to be carried out are in the following fields:  
(expenditure in thousands of DME quoted in brackets)

a. Department I

- (1) The nonelastic and the elastic diffusion of electrons through matter (Unelastische u. elastische Elektronenstreuung durch Materie) (71.6)
- (2) Thin layers (Duenne Schichte) (27.3)
- (3) Concentration of stable isotopes (Anreicherung stabiler Isotopen) (71.9)
- (4) Thermodiffusion (Thermodiffusion) (24.1)
- (5) Coincidence measurement of Beta-rays (Koinzidenzmessungen an Beta-Strahlen) (41.9)
- (6) Surface processes (Oberflaechenprozesse) (27.2)
- (7) Mass spectroscopy (Massenspektroskopie) (32.8)
- (8) Neutron counter (Neutronenzaehlrohr) (38.0)

b. Department II

- (1) Nuclear trace emulsion (Kernspuremulsion) (76.9)
- (2) Cloud camera (Nebelkamera) (36.4)

c. Department IV

- (1) Radio-active isotopes (55.3)
- (2) Heavy water (51.0)
- (3) Ionic sources (Ionenquellen) (59.9)
- (4) Velocity analyzer (Geschwindigkeitsanalysator) (70.3)

d. Department V

Radio-chemistry (45.5)

7. Among the requirements of Department I, to enable it to carry out its tasks for 1954, are the following movable installations:

	<u>Total Cost</u> <u>in DM East</u>
2 diffusion pumps, of metal at 1,000 DM East	2,000
2 diffusion pumps, of metal at 1,350 DM East	2,700
5 pre-vacuum pumps ( <u>Vorpumpen</u> )	5,500
Various measuring instruments, counters, etc.	3,000
1, 3-4 ton heavy electro-magnet for the electromagnetic isotope separator	about 6,000
1 supersensitive mirror galvanometer	1,300
1 direct current generator for the Beta spectrograph	about 2,500

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8. Department II requires the following movable installations for its work in 1954:
- |   | <u>Total Cost<br/>in DM East</u> |
|---|----------------------------------|
| 1 Lumipan research microscope for the evaluation<br>of nuclear trace plates ( <u>Kernemulsionsplatten</u> ) | 3,000                            |
| 1 <u>Exacter</u> camera for photographing cloud traces<br>( <u>Nebelspuren</u> ) in the cloud camera        | 3,000                            |
9. This department also requires 2,500 DM East in 1954 to cover the cost of "journeys to the Zugspitze, the Fichtelberg, and to the balloon ascent stations (Ballonaufsteigsstellen)".
10. The following will be required in 1954 for carrying out work with the 2 MeV-Accelerator:
- |  |                        |
|--|------------------------|
| a. <u>Expendable materials for research tasks</u>                          | <u>Cost in DM East</u> |
| 7 liters vacuum pump oil   | 2,000                  |
| Heavy water )  |                        |
| Hydrogen )   |                        |
| Oxygen )   |                        |
| Nitrogen )   | 6,000                  |
| Beryllium )  |                        |
| Lithium )  |                        |
| Valves )   |                        |
| b. <u>Movable accountable installations up to 1,000 DM East</u>            |                        |
| Electrical measuring instruments<br>(Galvanometer, counters)               | 2,000                  |
| c. <u>Movable accountable installations over 1,000 DM East</u>             |                        |
| 1 magnetic analyzer comprising:  |                        |
| Base   | 1,500                  |
| Magnet   | 9,500                  |
| Generator with stabilizer  | <u>3,000</u>           |
|  | Total 14,000           |
| d. <u>Unmovable accountable installations up to<br/>1,000 DM East</u>      |                        |
| 1 pump platform for ion sources<br>( <u>Pumpenstand fuer Ionenquelle</u> ) | 1,000                  |

Comment: No "Department III" was reported.

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